

PHOSPHORIC ACID ESTER, ITS PRODUCTION AND PHOSPHORIC ACID ESTER POLYMER

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Abstract

PURPOSE: To obtain the subject new ester useful for various uses such as an adhesiveness improver in coating, a flame retardant, an antistatic agent and an ion exchange resin by reacting an allyl alcohol-based compound with a phosphorus compound and obtain a polymer by polymerizing the resultant ester.
CONSTITUTION: This phosphoric acid ester is expressed by formula I [R1 is H or an organic residue; (n) is 1 or 2; X is CN, COR2 (R2 is an organic residue) or COOR2]. The phosphoric acid ester of formula I is obtained by reacting, e.g. an allyl alcohol-based compound of formula II with a phosphorus compound, preferably in the presence of a polymerization inhibitor. The phosphoric acid ester polymer is obtained by polymerizing the phosphoric acid ester of formula I and has a structural unit expressed by formula III or IV and has 1000-1000000 number-average molecular weight.

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